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ARTICLE V.

ON NEW MOSSES.

BY THOMAS P. JAMES.

Read December 16, 1864.

THE writer submits a catalogue of all the new mosses which he has detected within the limits of the United States east of the Mississippi River, and which were not published at the time of discovery. It includes a revision of those which were reported in his article entitled "An Enumeration of Mosses detected in the Northern United States which are not comprised in the Manual of Asa Gray, M.D.," published in the Proceedings of the Academy of Natural Sciences, December, 1855; also, several species found in localities not heretofore announced. The object in adding the new localities is to exhibit a wider range for future reference in forming a correct list of the geographical distribution of plants.

Botanists have in this country mostly confined their explorations to phænogamous plants, and but little attention has been devoted to the study of anophytes. This study has more recently received an impetus by the well-digested arrangement of the orders Musci and Hepaticæ in the first edition of Gray's Manual. This contribution was the labor of that accomplished bryologist, William S. Sullivant, Esq., and is now the acknowledged authority. In the issue of the second edition these orders received extensive additions and emendations by the same contributor, embracing all the discoveries up to that period, presenting a *vade-mecum* for all students.

The success of the writer in collecting the number reported of plants new to this country, compared to the limited extent of his explorations, should stimulate others to greater exertions in developing the many hidden objects now unknown to science. He has explored some, only, of the rich localities among the Alpine regions known as the White Mountains of New England, and less extensively those of the Alleghany Mountains of Pennsylvania and Catskill Mountains of New York. He has traversed, partially, sections of the midland of Pennsylvania, Delaware, and New Jersey, and in all of them has he been amply rewarded, and in no case have the localities been exhausted.

It is evident that the United States have by no means been thoroughly explored, and that much remains to be accomplished. The Bryological Flora lies open to the young enthusiastic botanist who desires to prosecute so interesting a study.

The author, with lively satisfaction, acknowledges his indebtedness to the eminent bryologist, Leo Lesquereux, Esq., of Columbus, Ohio, for having authenticated most of the plants reported in this catalogue.

SPHAGNUM, *Dill.*

S. COMPACTUM, *Brid.* Var. *rigidum*, *Müll.* Var. *humile*, *Schimp.*

Hab. Quakerbridge and other localities in New Jersey. These varieties have hitherto been reported as occurring solely in the Southern States.

S. CYCLOPHYLLUM, *Sulliv. and Lesqx.*

Hab. Batsto, near Quakerbridge, New Jersey.

S. SEDOIDES, *Brid.*

Hab. Ethan's Pond, Willey Mountain, New Hampshire, and Quakerbridge, New Jersey.

S. PYLÆSII, *Brid.*

Hab. Same localities as the preceding. All heretofore considered of Southern origin.

S. FIMBRIATUM, *Wils.*

Hab. Pinkham Notch, near the Glen House, White Mountains, New Hampshire.

Our plant has the stem-leaves less fimbriated than the figured species of Schimper, but corresponding in every other character. Drummond collected this species in British America.

S. CUSPIDATUM. Var. *fluitans*, *Schimp.*

Hab. Batsto, New Jersey.

PHASCUM, *Linn.*

EPHEMERUM, *Humpe.*

E. SYNOICUM. Sp. nov. Caule caespitoso, brevi, tenero, basi radiculis in plantis junioribus byssoideis instructo. Foliis inferioribus brevibus, ovato-lanceolatis, superioribus longioribus, lanceolatis vel lineari-lanceolatis, margine integris vel apice areolis exeuntibus subdentatis, enervis, laxae areolatis; perichæcialibus conformibus vix longioribus. Inflorescentia hermaphrodita; archegoniis antheridiisque e paraphysatis in eodem perichætio plurimis. Capsulis globosis, vel singulis, vel binis quandoque ternis in eodem perichætio, subsessilibus vel brevissime pedicellatis, Calyptra basi vix dilatata agglutinata longe rostellata. Sporis magnis papillois.

By the leaves, the general outline of the plant, the areolation, the form of the capsule, and the spores, this species is a true *Ephemerum*. It differs, however, from all the species of this genus by the hermaphrodite inflorescence. It has obscurely pro-embryonal filaments, although the filaments attached to the roots are, when young, truly byssoid. This species is very remarkable for the number of its capsules, generally two, sometimes three, in the same perichæcium. It does not compare with any described species. By

the leaves it approaches *Ephemerum tenerum*, Hampe, but even these are longer and narrower. The stem, though generally short, is sometimes a little elongated; the leaves are mostly entire, and perfectly nerveless; inferior ones small, and distantly imbricated. Matures in September.

Hab. On damp, clay soil; luxuriates on the surface of clay clods, recently thrown up in constructing ditches.
Camden, New Jersey.

PHASCUM TRIQUETRUM, *Spruce*.

Hab. Dry soil, near Woodbury, New Jersey.

P. MUTICUM, *Schreb.*

Hab. On the ground in uncultivated fields, Chester County, in 1850, and Indiana County, Pennsylvania.

P. SCHIMPERIANUM, *Sulliv.*

Hab. Upper Illinois, on the bare ground, heretofore reported exclusively as Texan. *E. Hall.**

P. SUBULATUM, *Schreb.*

Hab. Uncultivated fields in Pennsylvania, New Jersey, and Massachusetts.

This species assumes various phases, some specimens having an unusually broad costa, others short, inferior leaves.

P. PALUSTRE, *Br. and Sch.*

Hab. On sandy soil, New Jersey and Pennsylvania.

BRUCHIA, *Schwæg.*

B. FLEXUOSA, *Schwæg.* Var. *nigrescens*, *Sulliv.*

Hab. On the ground in uncultivated fields, Cambridge, Massachusetts; heretofore solely from the Southern States.

HYMENOSTOMUM, *R. Brown.*

H. MICROSTOMUM, *R. Br.*

Hab. On the ground in uncultivated fields, Cambridge, Massachusetts.

BLINDIA, *Br. and Sch.*

B. ACUTA, *Br. and Sch.*

Hab. Glen Ellis, Gorham, New Hampshire.

Our plant has leaves not quite entire, but slightly dentate, corresponding in other respects with description.

* Occasionally are inserted species which were not collected by the writer, but which came under his observation, being sent for investigation.

ARCTOA, *Br. and Sch.*

A. FULVELLA, *Br. and Sch.*

Hab. Moist situations on Mount Washington, New Hampshire.

The capsules of this species become more or less plaited or ribbed in age, yet simply a variety.

TREMATODON, *Rich.*

T. AMBIGUUS, *Nees and Hsch.*

Hab. Damp, clay soil, New England and Pennsylvania.

The species *T. longicollis*, *Michx.*, is found in the Southern States, but *T. ambiguus* is believed to be exclusively Northern.

DICRANUM, *Hedw.*

D. VIRENS, *Hedw.* Var. *Wahlenbergii*, *Br. and Sch.*

Hab. Near Ellis River, Pinkham Notch, New Hampshire, and Alleghany Mountains, Pennsylvania.

D. SCHREBERI, *Hedw.*

Hab. On the surface of a broad stone in a swamp near Lancaster, Pennsylvania; rare.

D. PELLUCIDUM, *Hedw.* var. ?

Hab. Brattleboro, Vermont, *C. C. Frost.*

D. CERVICULATUM, *Hedw.*

Hab. Roadsides, at Pinkham Notch, New Hampshire, growing intermingled with *D. subulatum*, *Hedw.*

D. SUBULATUM, *Hedw.* var.

Hab. Same locality.

A variety, with longer capsules and open leaves, found growing with the normal form.

D. MONTANUM, *Hedw.*

Hab. "Glen," White Mountains, New Hampshire, and Andover, Massachusetts.

D. LONGIFOLIUM, *Hedw.*

Hab. On rocks, not uncommon, at the White Mountains, New Hampshire.

D. FUSCESCENS, *Smith.* Var. *robustum.*

Hab. Mount Washington, New Hampshire.

D. SPURIUM, *Hedw.*

Hab. Catskill Mountains, New York, and White Mountains, New Hampshire, and Batsto, New Jersey.

Var. *CONDENSATUM*, *Hedw.*

Hab. Santee Canal, S. C., *Ravenel*, and North Carolina, *Dr. Curtis.*

Var. *ALBIDUM*, *Schimp.*

Hab. On sandy soil, Florida, *Daniel B. Smith.*

OCTOBLEPHARUM, *Hedw.*

O. ALBIDUM, *Hedw.*

Hab. On logs, &c., in swamps, near Enterprise, Florida. *D. B. Smith.*

FISSIDENS, *Hedw.*

F. INCURVUS, *Br. and Sch.*

Hab. Attached to rocks and stones in running streams about Philadelphia, Pennsylvania.

F. TAXIFOLIUS, *Hedw.*

Hab. Along the banks of the Brandywine Creek, Delaware, in 1850, and not uncommon near the Schuylkill River, Philadelphia.

Of this genus the writer has detected other species about Philadelphia, which are new, and, when proper specimens are procured, will be described.

TRICHOSTOMUM, *Br. and Sch.*

T. TORTILE. *Var. PUSILLUM*, *Br. and Sch.*

Hab. Gravelly soil, roadsides, Philadelphia, Pennsylvania.

This species has not the perichaetial leaves embracing at the base, the annulus is simple, the membrane of the peristome is emerged, and the leaves are denticulate at the apex.

BARBULA, *Hedw.*

B. RIGIDA, *Schultz.*

Hab. Near Athens, Illinois, *E. Hall.*

B. TORTUOSA, *Web. and Mohr.*

Hab. Goat Island, Falls of Niagara, and Alleghany Mountains, Pennsylvania.

B. PAPILLOSA, *Wils.*

Hab. On the trunks of buttonwood trees, New Jersey and Delaware, and elm trees, Massachusetts.

B. FALLAX, *Hedw.* *Var. brevifolia*, *Müll.*

Hab. Brattleboro, Vermont, *C. C. Frost.*

DIDYMODON, *Br. and Sch.*

D. RUBELLUS, *Br. and Sch.*

Hab. Trenton Falls, New York, 1850.

D. CYLINDRICUS, *Hook. and Tayl.*

Hab. Coventry, Chester County, Pennsylvania, December, 1850, and Alleghany Mountains, Pennsylvania, and Catskill Mountains, New York.

POTTIA, *Ehrh.*

P. SUBSESSILIS, *Br. and Sch.*

Hab. Bluffs, Sangamon River, Illinois, *E. Hall*, and Texas, *Dr. Bigelow.*

TETRODONTIUM, *Schwæg.*T. REPANDUM, *Funk.**Hab.* On damp ground, near the "Glen House," Gorham, White Mountains, New Hampshire. *Very rare.*ENCALYPTA, *Schreb.*E. STREPTOCARPA, *Hedw.**Hab.* Alleghany Mountains, Lancaster County, Pennsylvania, and Falls of Niagara; sterile.ZYGODON, *Hook. and Tayl.*Z. LAPPONICUS, *Br. and Sch.**Hab.* Crevices of rocks, Crawford Notch, New Hampshire; near the Wissahickon Creek, Philadelphia, also Mercersburg, Pennsylvania, *Porter.*Z. MOUGEOTII, *Br. and Sch.**Hab.* Catskill Mountains, New York; Crawford Notch, New Hampshire; and near the Wissahickon Creek, Philadelphia, Pennsylvania.ORTHOTRICHUM, *Hedw.*O. OBTUSIFOLIUM. Var. *Lesqx.*, O. *Rogeri*, Müll., nec *Schp.**Hab.* On trunks of Lombardy poplar trees, Cambridge, Massachusetts; in similar situations near Philadelphia, Pennsylvania.O. PUMILUM, *Br. and Sch.**Hab.* On trees, near Philadelphia, Pennsylvania; Camden, New Jersey; and Cambridge, Massachusetts.

O. PSILOCARPUM, sp. nov. (Mss., 1858), Monoicum, dense pulvinatum, pusillum, parce dichotomum, amœne viride, Foliis erecto-appressis, madefactis apertis, ovato-lanceolatis, concavis vix carinatis, margine medio revolutis, apice obtusis vel obtuso-acutis, nervo valido sub apice evanido instructis, areolatione cellulis ovatis chlorophyllosis distinctis utrinque inflatis, vix vel minutissime papillois, basim versus subquadratis, perichætalibus conformibus sed longioribus; theca immersa, ovata, ore angusto, lævi (leptoderma leiodermaque) vacua amœne pallida, collo elongato, in vaginula ineunte. Peristomii duplicis dentibus externis, brevibus, erectis, sordide albidis, granulosis, margine irregularibus, lanceolatis obtusis vel apice erosio obscure articulatis. Ciliis internis 8 fugacissimis vix dentium longitudine æqualibus; versus basin e duplo cellarum serie compositis, irregulariter plicatis. Operculo conico obtuso mamillato. Calyptra sordide albida nuda.

This species differs from *O. Canadense*, *Br. and Sch.*, by the smooth capsule. Although at times it appears striate when empty, the capsular cells are nevertheless equal, and not at all different at the apparent striæ, which are produced solely by desiccation; by the internal peristome, much more fugacious,—so much so that it is extremely difficult to find the cilioli; also, by the softer leaves. The peristome of this species resembles much that of the *O. strangulatum*, and yet the latter has the cilioli larger and stronger, and far less fugacious than our species.

Hab. On trees not uncommon about Philadelphia, Pennsylvania, and New Jersey.

O. LEOCARPUM, *Br. and Sch.*

Hab. On trees, Cambridge, Massachusetts, in 1853.

O. LUDWIGII, *Schwæg.*; *O. CRISPUM*, *Hedw.*; and *O. CRISPULUM*, *Husch.*

Hab. On trees, Catskill Mountains; White Mountains, New Hampshire, common.

SCHISTIDIUM, *Br. and Sch.*

S. APOCARPUM, *Br. and Sch.*

Var. *GRACILE*, *Br. and Sch.*

Var. *RIVULARE*, *Br. and Sch.*

Subvar. *ALPICOLUM*, *Br. and Sch.*

Hab. These varieties were all collected in the ravines of the White Mountains, New Hampshire.

S. CONFERTUM, *Br. and Sch.*

Hab. Not uncommon about Philadelphia, Pennsylvania.

GRIMMIA, *Ehrh.*

G. LEUCOPHŒA, *Grev.*

Hab. Rocks, Andover, Massachusetts; Catskill Mountains, New York.

G. OLNEYI, *Sulliv.*

Hab. On rocks on the banks of the Wissahickon Creek, Philadelphia, and French Creek, Chester County, Pa.

G. DONNIANA, *Smith.* Var. *obtus.*

Hab. On rocks, Mount Washington, New Hampshire.

RACOMITRIUM, *Br. and Sch.*

R. ACICULARE, *Brid.*

R. SUDETICUM, *Br. and Sch.*

R. FASCICULARE, *Brid.*

R. MICROCARPON, *Brid.*

Hab. White Mountain notches, New Hampshire; and Catskills, New York.

ATRICHUM, *Beauv.*

A. CRISPUM, *T. P. James.*

Hab. On the banks of brooks, among tufts of grass, in New Jersey.

POGONATUM, *Beauv.*

P. BRACHYPHYLLUM, *Michx.*

Hab. On clay soil in New Jersey. First in 1851. A species considered peculiar only to the Southern States.

POLYTRICHUM, *Brid.*

P. COMMUNE. Var. *PERIGONIALE*, *Br. and Sch.*

Hab. Portland, Maine, 1851.

P. STRICTUM, *Michx.*

Hab. Mount Washington, New Hampshire.

BRYUM, *Br. and Sch.*

B. CRUDUM, *Schreb.*

Hab. Gorham, 1851, and other stations at the White Mountains, New Hampshire.

B. LESCURIANUM, *Sulliv.*

Hab. Pinkham Notch, White Mountains, and near the Wissahickon Creek, Philadelphia, Pennsylvania.

B. ELONGATUM, *Dicks.*

Hab. Common at the White Mountains, New Hampshire.

B. NUTANS, *Schreb.* Var. *bicolor*, *Br. and Sch.*

Hab. Pinkham Notch, White Mountains, New Hampshire.

B. PSEUDO-TRIQUETRUM, *Schwæg.*

Hab. Wet rocks, West Point, New York, and near Rockport, Massachusetts.

B. INTERMEDIUM, *Brid.*

Hab. Falls of Niagara, White Mountains, New Hampshire; and Alleghany Mountains and York County, Pa.

B. CIRRHATUM, *Hppe and Hsch.*

Hab. Lancaster County, Pennsylvania.

B. OBCONICUM, *Hsch.* Var. having leaves with shorter points, and nerve disappearing under the point.

Hab. Florida, *D. B. Smith.*

B. CORONATUM, *Schimp.* Var. with large yellow capsules.

Hab. Florida, *D. B. Smith.*

MNIUM, *Dill.*

M. HORNUM, *Hedw.*

Hab. Common in Pennsylvania and New Jersey.

M. LYCOPODIOIDES, *Brid.*

Hab. Gorham, White Mountains, New Hampshire.

M. CINCLIDIROIDES, *Hueb.*

Hab. Crawford Notch, White Mountains, New Hampshire.

M. HYMENOPHYLLOIDES? *Hueb.*

Hab. Trenton Falls, New York.

M. SPINULOSUM. *Br. and Sch.*

Hab. Common at the Catskill Mountains, New York, and White Mountains, New Hampshire.

RHIZOGONIUM, *Brid.*

R. SPINIFORME, *Bruch.*

Hab. On the ground at the roots of trees, Florida, *D. B. Smith.*

TETRAPLODON, *Br. and Sch.*T. MNIOIDES, *Br. and Sch.**Hab.* Mount Franklin, White Mountains, New Hampshire.FONTINALIS, *Dill.*F. ANTIPYRETICA, Var. GIGANTEA, *Sulliv.**Hab.* In the head waters of the Saco River, Crawford Notch, New Hampshire, where it was collected for the first time in fruit. Not uncommon in Pennsylvania and New Jersey.F. DISTICHA, *Hook. and Wils.**Hab.* Near Wilmington, Delaware, 1851; and in the head waters of the Saco River, White Mountains.F. LESCURI, *Sulliv.* Var. GRACILLESCENS.*Hab.* Head waters of the Saco River.F. DALECARLICA, *Br. and Sch.**Hab.* Common in the mountain streams of the White Mountains, in a fine fruiting condition.F. NOVÆ ANGLIÆ, *Sulliv.**Hab.* In a small stream near Cape Ann, Rockport, Massachusetts, whence the fine fruiting specimens came by which the author determined the species.DICHELYMA, *Myrin.*D. FALCATUM, *Myrin.**Hab.* Near the head waters of the Saco River.D. CAPILLACEUM. Var. SUBULIFOLIUM, *Schimp.**Hab.* Near Cambridge, Massachusetts.CRYPHEA, *Mohr.*C. GLOMERATA, *W. P. Sch.**Hab.* On trees, Batsto, New Jersey. A reported Southern species.LESKEA, *Hedw.*L. NERVOSA, *Myrin.**Hab.* Crawford Notch, White Mountains, New Hampshire.PYLAISÆA, *Bryol. Europ.*P. VELUTINA, *W. P. Sch.**Hab.* Franconia and Pinkham Notches, White Mountains, New Hampshire.P. POLYANTHA, *Br. and Sch.**Hab.* White Mountains, New Hampshire.P. JAMESII, *Sulliv. and Lesqx., MS.**Hab.* On the ground under the shade of trees, Chelsea beach, near Boston, Massachusetts.

PTERIGYNANDRUM, *Hedw.*P. FILIFORME, *Hedw.**Hab.* On trunks of trees, Crawford Notch, New Hampshire.NECKERA, *Hedw.*N. OLIGOCARPA? *Br. and Sch.**Hab.* Under surfaces of horizontal rocks and in shaded situations, White Mountains, New Hampshire.

Our plant has a different aspect from European species. It has shorter capsules, inflated under the operculum, and somewhat top-shaped. Better specimens will probably prove it a new species.

N. UNDULATA, *Hedw.**Hab.* Florida, *D. B. Smith.*HOMALIA, *Bryol. Europ.*H. JAMESIANA, *W. P. Sch.**Hab.* Catskill Mountains and the White Mountains of New England. Not uncommon.

Mr. W. P. Schimper remarks, after his diagnosis of *O. trichomanoides*, in a note: "*Obs. Speciem proximam paulo minorem, foliis longioribus, solidioribus, subfalcato-ligulatis, sicitate longitudinaliter striolatis, operculi rostro et peristomio brevioribus, clar. T. P. James; in montibus Albis Amer. Sept. legit et misit; nomen H. Jamesii in honorem detectoris ei imposui.*"

HYPNUM, *Linn.*H. ABIETINUM, *Linn.**Hab.* Catskill Mountains, New York.H. BLANDOWII, *Web. and Mohr.**Hab.* Wisconsin, *I. A. Lapham.*H. PALUDOSUM, *Sulliv.**Hab.* Marshes, New Jersey, and near Philadelphia, Pennsylvania.H. SQUARROSUM, *Linn.**Hab.* Mount Willard, Crawford Notch, White Mountains, New Hampshire.H. PILIFERUM, *Schreb.**Hab.* Near the Wissahickon, 1852.H. DEPRESSUM, *Bruch.**Hab.* On moist ground, near the Schuylkill, Philadelphia, Pennsylvania.

This species was detected in 1853, and reported in the "Enumeration" in *Proceed. Acad. Nat. Sci.*, and, from further investigation, its verity is reaffirmed.

H. MOLLE, *Dick.*

Hab. White Mountains, New Hampshire.

H. OCHRACEUM, *Turner.*

Hab. Catskill Mountains, New York, 1850, and White Mountains, New Hampshire.

H. MONTANUM, *Wils., MS., James' Enum.*

Hab. On rocks in mountain rivulets, White Mountains, New Hampshire.

H. GIGANTEUM, *Schimper.*

Hab. In a swamp near Lancaster, Pennsylvania.

H. ADUNCUM. Var. *GIGANTEUM*, *Br. and Sch.*

Hab. "Ethan's Pond," Willey Mountain, New Hampshire.

H. FERTILE, *Sendtn.*

Hab. Alleghany, Catskill and White Mountains.

H. HAMULOSUM, *Br. and Sch.*

Hab. Crawford Notch, White Mountains, New Hampshire.

Our plant has a shorter capsule and longer operculum than the European species, probably only a variety.

H. PRATENSE, *Koch.*

Hab. On moist ground, New Jersey.

Var. ———

Hab. White Mountains, New Hampshire.

This plant has leaves more crowded on the stem; more uncinatè; and with longer entire points; the perichætial leaves much longer pointed, the point entire, filiform, flexuose, or reflexed. *An. species.*

H. SALEBROSUM, *Hoff.* Var. *Schimp.*

Hab. Byberry, Philadelphia, Pennsylvania.

This is a very fine variety. Differs *operculo longiori.*

H. TRACHYPODIUM, *Br. and Sch.*

Hab. On rocks near Charles River, Cambridge, Massachusetts.

H. CAMPESTRE, *Br. and Sch.*

Hab. On damp rocks, Bucks County, Pennsylvania.

H. REFLEXUM, *Starke.*

Hab. On rocks and at base of trees, White Mountains, New Hampshire.

H. NOVÆ ANGLIÆ, *Sulliv. and Lesqx.*

Hab. Common in Pennsylvania, Delaware, and New England.

H. SOMMERFELTII, *Myrin.*

Hab. Mostly White and Alleghany Mountains.

H. DIMORPHUM, *Brid.*

Hab. Shaded situations, Glen Ellis, White Mountains, New Hampshire.

H. CONFERVOIDES, *Schwæg.*

Hab. Near Lebanon Springs, New York, and Lancaster County, Pennsylvania.

H. SPRUCEI, *Bruch.*

Hab. Goat Island, Falls Niagara, New York.

H. AMERICANUM, *Schp.?*

Hab. Cambridge, Massachusetts.

A species having the areolation of *H. curvipes*, *Br. and Sch.*, but with longer seta and longer operculum. Doubtfully *H. Americanum*.

H. IRRIGUUM? *Br. and Sch.*

Hab. Trenton Falls, New York, and Cambridge, Massachusetts. And Var. merging into *H. fluviatile*, from Sulphur Springs, Virginia.

H. RIPARIUM, *Hedw.* Var. Of a remarkably slender form.

Hab. In a spring, Bartram's, Philadelphia, Pennsylvania.

H. LESCURI, *Sulliv.*

Hab. Lancaster and Philadelphia Counties, Pennsylvania.

H. MUHLENBECKII, *Br. and Sch.*

Hab. Common near Philadelphia, Pennsylvania, and the White Mountains, New Hampshire.

H. DENTICULATUM, *Linn.*

Hab. Similar localities.

H. PULCHELLUM, *Hedw.*

Hab. "Glen," White Mountains, New Hampshire.

H. FULVUM, *Hook. and Wils.*

Hab. Batsto, New Jersey. Considered a Southern species.

H. ELEGANS, *Hook.*

Hab. Near "Glen House," White Mountains, New Hampshire.

H. ROESEANUM, *Hmpe.*

Hab. Gorham, New Hampshire, and about Philadelphia, Pennsylvania.

This species resembles *H. Sullivantiae*, *Schp.* It differs in being of smaller size, and leaves with a narrower areolation,